Biosensors **4** (1989) 421–424

CONTENTS OF VOLUME 4

Number 1

Adsorptive Stripping Voltammetry of Human Chorionic Gonadotropin and Two of its Specific Antibodies 1
JUANA RODRIGUEZ FLORES (Spain), RICHARD O'KENNEDY & MALCOLM R. SMYTH (Ireland)

Fibre-Optic Glucose Sensor with a pH Optrode as the Transducer. 15
WOLFGANG TRETTNAK, MARC J. P. LEINER & OTTO S. WOLFBEIS (Austria)

Study and Development of Multilayer Needle-type Enzyme-based Glucose Microsensors 27
ROBERT STERNBERG, MARIE-BERNADETTE BARRAU, LAURENT GANGIOTTI, DANIEL R. THÉVENOT (France), DILBIR S. BINDRA, GEORGE S. WILSON (USA), GILBERTO VELHO, PHILIPPE FROGUEL & GÉRARD REACH (France)

An Immobilized Enzyme Membrane Fabrication Method using an Ink Jet Nozzle 41
J. KIMURA, Y. KAWANA & T. KURIYAMA (Japan)

Calendar 53

Bibliography on Biosensors 57

Number 2

The Development of an Immunosensor for the Electrochemical Determination of the Isoenzyme LDH5. 61
J. RISHPON & I. ROSEN (Israel)

Biosensing Devices for the Semi-Automated Control of Dehydrogenase Substrates in Fermentations 75
R. KITTSTEINER-EBERLE, I. OGBOMO & H.-L. SCHMIDT (FRG)

Biosensors **4** (1989)—© 1989 Elsevier Science Publishers Ltd, England. Printed in Great Britain

Apparatus for the Electrical Characterisation of Conductive Fluids . . . 87
BARRIE C. BLAKE-COLEMAN, ANNA ULRICH, PAUL F. FITZPATRICK, MICHAEL R. CALDER & DAVID J. CLARKE (UK)

Short Communication
Potentially-Implantable, Amperometric Glucose Sensors With Mediated Electron Transfer: Improving the Operating Stability 109
JOHN C. PICKUP, GILL W. SHAW & DENZIL J. CLAREMONT (UK)

News 121

Calendar 125

Bibliography on Biosensors 129

Number 3

Molecular Receptors and their Potential for Artificial Transduction . . . 135
JOSEPH L. TEDESCO, ULRICH J. KRULL & MICHAEL THOMPSON (Canada)

Photo-induced Electron Transfer as a General Design Logic for Fluorescent Molecular Sensors for Cations 169
AIDEN J. BRYAN, A. PRASANNA DE SILVA, SALIYA A. DE SILVA, R. A. D. DAYASIRI RUPASINGHE & K. R. A. SAMANKUMARA SANDANAYAKE (UK) (Sri Lanka)

Fibre-Optic Sensor with Co-immobilised Bacterial Bioluminescence Enzymes . 181
S. M. GAUTIER, L. J. BLUM & P. R. COULET (France)

News 195

Calendar 198

Bibliography on Biosensors 205

Number 4

Intact Chemoreceptor-Based Biosensors: Responses and Analytical Limits . . 215
R. M. BUCH & G. A. RECHNITZ (USA)

Highly Sensitive Enzyme Thermistor Determination of ADP and ATP by Multiple Recycling Enzyme Systems 231
DIETER KIRSTEIN (GDR), BENGT DANIELSSON (Sweden), FRIEDER SCHELLER (GDR) & KLAUS MOSBACH (Sweden)

Measurements of Dissolved Oxygen in Batch Solution and with Flow Injection Analysis using an Enzyme Electrode 241
XIURONG YANG (Sweden)

Ultrafiltration of Human Serum to Determine the Size of Species that Poison Voltammetric Electrodes 251
JANEAN M. ELBICKI & STEPHEN G. WEBER (USA)

Book Review
Chemical Sensors. Edited by T. E. Edwards. Blackie & Sons, Glasgow, UK, 1987 . 259
(Reviewed by I. J. Higgins)

Calendar 261

Bibliography on Biosensors 265

Number 5

Transient Measurement of Dissolved Oxygen using Membrane Electrodes . . 273
HENRY Y. WANG & XIANG-MING LI (USA)

Biosensors Based on Conducting Filled Polymer All-Solid-State PVC Matrix Membrane Electrodes 287
SALVADOR ALEGRET & ESTEVE MARTÍNEZ-FÀBREGAS (Spain)

Whole-Cell Biosensors for Environmental Monitoring 299
DAVID M. RAWSON, ALLISON J. WILLMER & ANTHONY P. F. TURNER (UK)

Enzyme Electrode for the Determination of Aspartate 313
O. FATIBELLO-FILHO, A. SULEIMAN & G. G. GUILBAULT (USA)

Book Review
Chemical Sensor Technology. Edited by T. Seiyama. Kodansha Ltd, Tokyo and Elsevier Amsterdam, 1988 323
(Reviewed by E. J. D'Costa)

News 326

Calendar 331

Bibliography on Biosensors 337

Number 6

Chemically Modified Cellulose Acetate Membrane for Biosensor Applications . 349
HARI GUNASINGHAM, PETER Y. T. TEO, YEE-HING LAI & SWEE-GEOK TAN (Republic of Singapore)

Immobilization of Biocatalysts with *Bombyx mori* Silk Fibroin by Several Kinds of Physical Treatment and Its Application to Glucose Sensors 361
MAKOTO DEMURA, TETSUO ASAKURA & TAKESHI KUROO (Japan)

Histamine Selective Microelectrode Based on a Synthetic Organic Liquid Ion Exchanger 373
YU BI (The People's Republic of China)

A Specific Enzyme Electrode for L-glutamate—Development and Application . 381
ULLA WOLLENBERGER, FRIEDER W. SCHELLER, ANETTE BÖHMER, MARGRIT PASSARGE & HANS-GEORG MÜLLER (GDR)

Short Communication
A New Method for Enzyme Membrane Preparation Based on Polyurethane Technology: Electrode Modification for Sensor Development 393
CHRISTOS-GALIATSATOS, KIAMARS HAJIZADEH, JAMES E. MARK & WILLIAM R. HEINEMAN (USA)

News 403

Calendar 408

Bibliography on Biosensors 415